#### Environmental Management System Management Audit Report

August 1-5, 2005

#### **Purpose**

Thomas Jefferson National Accelerator Facility (JLab) intends to self-declare implementation of an Environmental Management System (EMS) in the fall of 2005. In preparation for self-declaration this internal audit of the Lab's EMS was conducted in accordance with JLab SOP EMP-14, Internal Audit. Non-conformances, e.g. failures to meet a requirement, identified in the audit are to be addressed before self-declaration.

#### Scope

The audit encompassed all of the EMS requirements defined in ISO 14001:2004 and covered activities on the Lab's main campus as well as in off-site rented/leased space such as Blue Crab Storage. The audit sought to determine whether the EMS that JLab is now implementing satisfies the requirements of ISO 14001 and whether the requirements of the EMS (including staff awareness of the EMS) are being met in the field.

#### Plan

The audit plan was created by the audit team as part of its training and approved by the EMS Management Representative. The audit assignments were set so that no one audited work in which he or his line management had participated, in order to maintain objectivity.

The audit was divided into two pieces: audit of the EMS as a whole for conformance to the requirements of ISO 14001 and audit of awareness and implementation of the EMS in the field

In order to audit the field the team prepared a matrix of Lab area versus significant environmental aspects and planned the audit to sample all areas and all significant aspect categories. The matrix and the resulting audit assignments are shown in Annex 1.

#### **Audit Team**

The audit team was chosen by the EMS Management Representative from across JLab and also included two consultants from Gannett Flemming, Inc., the firm that has been assisting in the Lab's development and implementation of an EMS. Team members and their organizations:

Dave Buckle<sup>1</sup> CIO Mary Erwin<sup>3</sup> (EMS Management Representative) CFO

Chuck Mason<sup>2</sup> Gannett Flemming, Inc

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Jim Murphy<sup>3</sup> (Lead Auditor) OA

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Dena Polyhronakis<sup>2</sup> Steve Rowley Tim Rothgeb<sup>1</sup> Administrative Division Gannett Flemming, Inc. Accelerator Division

Gannett Flemming, Inc. trained the internal members of the team before the audit. Most of the audit was performed by two-person subteams. These three teams are indicated by superscripts following the names. Steve Rowley, who had not participated in the JLab EMS project before the audit, was charged with auditing the conformance of the overall EMS to the ISO 14001 standard.

#### Results

Findings were graded as follows:

- OK Item meets ISO 14001 and/or other requirements including the JLab EH&S Manual and SOPs. Noted on Corrective Action Request forms (CARs) only in particularly significant cases.
- <u>Observations</u> Items which meet the intent of the requirements, but with minor inconsistencies. Noted on CARs, but no response required. Not tracked.
- <u>Minor</u> Not an EMS failure, but a failure in some part of the documentation or a single observed failure in conforming to one requirement. Tracked.
- <u>Major</u> EMS failure. The absence or total breakdown of an EMS requirement, or a number of minor findings against a single requirement. Tracked.

The audit recorded 25 observations, six (6) minor and two (2) major non-conformances.

The major non-conformances:

- Several people interviewed were not aware of the environmental policy or the EMS in general. Those who were aware knew about it mostly through informal channels. Root cause: employee not trained.
  - <u>Recommended Corrective Action</u>: Perform JLab wide awareness training including training on the environmental policy.
- JLab has not performed a compliance audit per EMP-11.
  - <u>Recommended Corrective Action</u>: Perform a compliance audit of JLab per EMP-11 and maintain records of the audit.

#### The minor non-conformances:

- TIPs should be updated with the status of the specific actions. Also the targets are expressed as tasks rather than a quantifiable performance level as required.
  - <u>Recommended Corrective Action</u>: Update TIPs to show status. Express targets as the quantifiable performance level and deadline to help meet the broader objective.
- Operational controls have not been developed for all significant environmental aspects.

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<u>Recommended Corrective Action</u>: Develop and finalize SOPs for all significant aspects.

• EMP-10 does not contain adequate detail to show the required equipment calibration performed at JLab.

Recommended Corrective Action: Develop a calibration requirements matrix.

 The corrective action process in EMP-12 has not been implemented for EMSrelated non-conformances.

<u>Recommended Corrective Action</u>: Implement future corrective actions using EMP-12.

• The internal audit is being performed for the first time.

<u>Recommended Corrective Action</u>: Ensure that EMP-14 is followed in performing this audit and all future EMS audits.

• A top management review of the EMS has not been completed per EMP-15.

<u>Recommended Corrective Action</u>: Complete a top management review of the EMS per EMP-15.

The major and minor non-conformances have been entered into the Lab's corrective action tracking system and will be tracked to completion. The attached CARs document all of the observations, minor and major non-conformances.

Mary Erwin.

EMS Management Representative

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Annex 1: Audit Plan

	Significant Environmental Aspect Categories						
Area	Team	Ionizing Radiation	Rad Waste	Recyclabl e Materials	Regulate d Waste	Spills	WW Discharge
ACC Service Buildings	1		X				
ACC Tunnel ARC Lab	1 2 2				X	•	X
Blue Crab Chem Storage	3				X	X	X
Cryo Physics/EEL	1 2			X	X X	X	X
Physics Halls Radcon	3	X	X		X	X	X
Test Lab	1, 2 & 3		**		X	X	X
Security - Involvement	CM				W		
Medical/ VARC Admin/	2				X	X	
VARC Managemen	SR				71	**	
t System Elements							

Team 1 = Dave Buckle and Tim Rothgeb Team 2 = Dena Polyhronakis and Chuck Mason

Team 3 = Mary Erwin and Jim Murphy

CM = Chuck Mason

SR = Steve Rowley

Annex 2: Corrective Action Requests

All CARs will be attached.

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CAR No.: 2005-SR-01-1	CAR Date: 8/3/05			
Reported by (name): Steve Rowley				
Requirement (SOP, ISO 14001, or other): ISO 14001, 4.1 (General Requirements). Jefferson Lab must define the scope of its EMS.				
<b>Description of Nonconformance:</b> (If this is a major nonconformance then also insert th cause from the attached list. Provide additional descr such as a completed Notable Event Report.)				
Section 2.0 of the EMS plan should provide a better definition of the operations within the scope of the EMS, such as "design and operation of the electron accelerator and support of physics experiments." It is not clear whether the Middle Ground storage facility is included in the EMS scope.				
Grading (circle one): Major Minor Observation				
Corrective Action Required: Modify scope to provide greater detail of the specific activities involved in the scope of Jefferson Lab's EMS. Document if the Middle Ground facility is also included in the EMS scope.				
Responsibility for Corrective Action (na	me and phone <b>Due Date:</b>			
number): NA	Receipt Date:			

CAR No.: 2005-SR-01-2	CAR Date: 8/3/05			
Reported by (name): Steve Rowley				
Requirement (SOP, ISO 14001, or other): ISO 14001, 4.4.4 (Documentation). Interaction of EMS documentation to related documentation must be defined.				
<b>Description of Nonconformance:</b> (If this is a major nonconformance then also insert the root and contributing cause category and specific cause from the attached list. Provide additional description or reference supporting information sources such as a completed Notable Event Report.)				
The relationship between the Quality Assurance Program Manual, EHS Plan, and EMS Plan has not been well-defined in Section 4.4.4 of the EMS Plan.				
Grading (circle one): Major Minor Observation				
Corrective Action Required:				
Describe how these documents relate to each other and the major purpose of each document.				
·				
Responsibility for Corrective Action (na number): NA	me and phone <b>Due Date:</b>			
	Receipt Date:			

CAR No.: 2005-SR-01-3	CAR Date: 8/3/05			
Reported by (name): Steve Rowley				
Requirement (SOP, ISO 14001, or other): ISO 14001, 4.3.1 (Environmental Aspects). Jefferson Lab must ensure that its environmental aspects are kept up to date.				
<b>Description of Nonconformance:</b> (If this is a major nonconformance then also insert the root and contributing cause category and specific cause from the attached list. Provide additional description or reference supporting information sources such as a completed Notable Event Report.)				
EMP-04, Project Environmental Review, has not been fully implemented and not everyone has been trained on following it. In addition, the procedure does not include a cross-reference to 3120, Experimental Review Procedure found in the EH&S Manual.				
Grading (circle one): Major Minor <u>Observation</u>				
Corrective Action Required:  Implement and train everyone on EMP-04 and maintain all records required as part of the procedure. Explain how 3120 will be integrated with EMP-04.				
Responsibility for Corrective Action (namber): NA	me and phone <b>Due Date:</b>			
THE PARTY IN THE P	Receipt Date:			

CAR No.: 2005-SR-01-4	CAR Date: 8/3/05		
Reported by (name): Steve Rowley			
Requirement (SOP, ISO 14001, or other): ISO 14001, 4.3.3 (Objective, Targets, and Programs). Jefferson Lab must establish, implement, and maintain programs for achieving its objectives and targets.			
<b>Description of Nonconformance:</b> (If this is a major nonconformance then also insert the root and contributing cause category and specific cause from the attached list. Provide additional description or reference supporting information sources such as a completed Notable Event Report.)			
TIPs should be updated with the status of the specific action. Also, the targets are expressed as tasks, rather than a quantifiable performance level as required.			
Grading (circle one): Major Minor Observation			
Corrective Action Required: Update the TIPs to show status of completion.  Express targets as the quantifiable performance level and deadline to help meet the broader objective. For example, an objective to reduce waste might have a target of: 10% reduction in solid waste by December 31, 2005. The subtasks that must be achieved to meet this target should be task-oriented.			
Responsibility for Corrective Action (na	me and phone <b>Due Date:</b>		
number):	Receipt Date:		

CAR No.: 2005-SR-01-5	CAR Date: 8/3	3/05		
Reported by (name): Steve Rowley				
Requirement (SOP, ISO 14001, or other): ISO 14001, 4.4.2 (Competence, Training, and Awareness). Jefferson Lab must identify training needs and ensure that all personnel are properly trained.				
Description of Nonconformance:  (If this is a major nonconformance then also insert the root and contributing cause category and specific cause from the attached list. Provide additional description or reference supporting information sources such as a completed Notable Event Report.)  SOPs are not listed on the environmental training needs matrix. The matrix				
does not list specific environmental tra	ining needs for	various job titles.		
Grading (circle one): Major Minor <u>Observation</u>				
Corrective Action Required:				
SOPs must be added to the environmental training needs matrix, and SOP training must be completed. Training requirements should be organized by job title or similar means to organize the information. The methodology for maintaining training records should be defined, such as CBT or sign-in sheets.  As an improvement item, the EMS training program should be integrated				
with Jefferson Lab's existing training program management software.				
Responsibility for Corrective Action (name and phone number): NA				
THORIDOLY I THE		Receipt Date:		

	R Date: 8/3/05
Reported by (name): Steve Rowley	
Requirement (SOP, ISO 14001, or other): ISO 14 Jefferson Lab must develop a procedure to to relevant external environmental commu	receive, document, and respond
<b>Description of Nonconformance:</b> (If this is a major nonconformance then also insert the root cause from the attached list. Provide additional description such as a completed Notable Event Report.)	
EMP-06 references the use of a communica external communication. However, the formula implemented.	
Grading (circle one): Major Minor <u>O</u>	<u>bservation</u>
Develop and implement the communication Coordinate any external communication prodepartment.	_
	<del></del>
Responsibility for Corrective Action (name and	d phone <b>Due Date:</b>
Responsibility for Corrective Action (name annumber): NA  Preventive Action Required:	d phone

CAR No.: 2005-SR-01-7	CAR Date: 8/3/05			
Reported by (name): Steve Rowley				
Requirement (SOP, ISO 14001, or other): ISO 14001, 4.4.5 (Control of Documents). Jefferson Lab must control all documents required for its EMS.				
<b>Description of Nonconformance:</b> (If this is a major nonconformance then also insert the root and contributing cause category and specific cause from the attached list. Provide additional description or reference supporting information sources such as a completed Notable Event Report.)				
EMP-07B is not complete; not all of the	e relevant EMS documents are liste	ed.		
Grading (circle one): Major Minor	<u>Observation</u>			
Corrective Action Required:  Update EMP-07B to show all required EMS documents.				
Responsibility for Corrective Action (name number): NA	ame and phone <b>Due Date:</b>			
number). 147	Receipt Date:			
Preventive Action Required: NA				
Responsibility for Preventive Action (nar number): NA	ame and phone Due Date: NA			
number). IAA	Receipt Date:			

CAR No.: 2005-SR-01-8	CAR Date: 8/3/05			
Reported by (name): Steve Rowley				
Requirement (SOP, ISO 14001, or other): ISO 14001, 4.4.6 (Operational Control).  Jefferson Lab must develop documented procedures to cover those operations associated with its significant environmental aspects.				
<b>Description of Nonconformance:</b> (If this is a major nonconformance then also insert the root and contributing cause category and specific cause from the attached list. Provide additional description or reference supporting information sources such as a completed Notable Event Report.)				
Operational controls have not been developed for all significant environmental aspects. Some of those prepared are in draft form.				
Grading (circle one): Major Minor	Observation			
Corrective Action Required:  Develop and finalize SOPs for all significant environmental aspects.				
Responsibility for Corrective Action (name and phone number):  Due Date:				
. Trainious y I	Receipt Date:			
Preventive Action Required:				
Responsibility for Preventive Action (name number):	me and phone Due Date: NA			
number).	Receipt Date:			

CAR No.: 2005-SR-01-	9	CAR Date: 8/3	3/05	
Reported by (name): Steve Rowley				
Requirement (SOP, ISO 1 Jefferson Lab must con contractors and supplie	municate appli	-	6 (Operational Control). es and requirements to	
<b>Description of Nonconformance:</b> (If this is a major nonconformance then also insert the root and contributing cause category and specific cause from the attached list. Provide additional description or reference supporting information sources such as a completed Notable Event Report.)				
EMP-08 should provide a more detailed description or reference the process for communicating EMS requirements to contactors and suppliers.				
Grading (circle one):	Major Minor	Observation	1	
Corrective Action Required:  Define responsibilities for communicating these requirements.  Responsibility for Corrective Action (name and phone number): NA  Due Date:  Receipt Date:				
Preventive Action Requ NA	ired:			
Responsibility for Preventive Action (nam number): NA		me and phone	Due Date: NA	
			Receipt Date:	

CAR No.: 2005-SR-01-10	CAR Date: 8/3/05			
Reported by (name): Steve Rowley	Reported by (name): Steve Rowley			
Requirement (SOP, ISO 14001, or other): ISO 14001, 4.4.7 (Emergency Preparedness and Response). Jefferson Lab must review and revise its emergency response procedures.				
<b>Description of Nonconformance:</b> (If this is a major nonconformance then also insert the root and contributing cause category and specific cause from the attached list. Provide additional description or reference supporting information sources such as a completed Notable Event Report.)				
The Incident Report Form (EMP-09A) is not used for recording environmental incidents or the results of drills described in EMP-09. The Oil Storage Inspection Sheets in the SPCC plan are not used.				
Grading (circle one): Major Minor	<u>Observation</u>			
Corrective Action Required:	<u> </u>			
Document and retain the Incident Report Form and the Oil Storage Inspection Sheets.  As an improvement item, consider incorporating the emergency response				
testing procedure and the Emergency Response Drill form used by the Jefferson Lab security subcontractor.				
Responsibility for Corrective Action (na number): NA	ame and phone <b>Due Date:</b>			
	Receipt Date:			
Preventive Action Required:				
NA .				

CAR No.: 2005-SR-0	1-11	CAR Date: 8/3/05			
Reported by (name): Steve Rowley					
Requirement (SOP, ISO 14001, or other): ISO 14001, 4.5.1 (Monitoring and Measurement). Jefferson Lab must ensure that all equipment requiring calibration is identified, and calibration records maintained.					
<b>Description of Nonconformance:</b> (If this is a major nonconformance then also insert the root and contributing cause category and specific cause from the attached list. Provide additional description or reference supporting information sources such as a completed Notable Event Report.)					
	EMP-10 does not contain adequate detail to show the required equipment calibrations performed at Jefferson Lab.				
Grading (circle one):	Major <u>Minor</u>	Observation			
Develop a calibration requirements matrix, showing all equipment requiring calibration and the records maintained. This could be a subset of the records control matrix.					
Responsibility for Corrective Action (name number):					
		Receipt Date:			
Preventive Action Required:					
Responsibility for Pre	eventive Action (na	ame and phone			

CAR No.: 2005-SR-01-12	CAR Date: 8/3/05	
Reported by (name): Steve Rowley		
Requirement (SOP, ISO 14001, or other): IS Compliance). Jefferson Lab must regulatory requirements.	•	
<b>Description of Nonconformance:</b> (If this is a major nonconformance then also insert the root and contributing cause category and specific cause from the attached list. Provide additional description or reference supporting information sources such as a completed Notable Event Report.)		
Jefferson Lab has not performed a compliance audit per EMP-11. Item 46 on the root cause list.		
Grading (circle one): Major Minor	Observation	
Corrective Action Required:		
Perform a compliance audit of Jefferson Lab per EMP-11 and maintain records of the audit.		
Responsibility for Corrective Action (name and phone Due Date:		
number):	Receipt Date:	

CAR No.: 2005-SR-01-13	CAR Date: 8/3/05
Reported by (name): Steve Rowley	
Requirement (SOP, ISO 14001, or other): IS corrective action, and preventive actio investigate, and close out all EMS non-	n). Jefferson Lab must identify,
<b>Description of Nonconformance:</b> (If this is a major nonconformance then also insert th cause from the attached list. Provide additional description as a completed Notable Event Report.)	
The corrective action process described for EMS-related non-conformances.	in EMP-12 has not been implemented
Grading (circle one): Major Minor	Observation
Implement future corrective actions for 12.  Responsibility for Corrective Action (na	
number):	Receipt Date:
Preventive Action Required:	
Responsibility for Preventive Action (na number):	me and phone
	Receipt Date:

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CAR No.: 2005-SR-01-14	CAR Date: 8/3/05
Reported by (name): Steve Rowley	·
Requirement (SOP, ISO 14001, or other): I Jefferson Lab must identify, maintain required by the EMS.	ISO 14001, 4.5.4 (Control of Records). , and properly dispose of all records
,	the root and contributing cause category and specific cription or reference supporting information sources
The records control chart does not co	ntain all required records.
Grading (circle one): Major Minor	Observation
Update the records control chart (EMI records, including location, person resand retention time.  Responsibility for Corrective Action (records)	sponsible for maintaining the record,
number): NA	Receipt Date:
Preventive Action Required: NA	
Responsibility for Preventive Action (number): NA	ame and phone <b>Due Date: NA</b>
	Receipt Date:

CAR No.: 2005-SR-01-15	CAR Date: 8/3/05
Reported by (name): Steve Rowley	
Requirement (SOP, ISO 14001, or other): Is Jefferson Lab must objectively audit it results to management.	SO 14001, 4.5.5 (Internal Audit). s EMS on a regular basis and report the
Description of Nonconformance: (If this is a major nonconformance then also insert the cause from the attached list. Provide additional description as a completed Notable Event Report.)  This procedure is being performed for the content of the co	ription or reference supporting information sources
Grading (circle one): Major <u>Minor</u>	Observation
Corrective Action Required:  Ensure that EMP-14 is followed in performance:  Responsibility for Corrective Action (nanumber):	<del>-</del>
Preventive Action Required:  Responsibility for Preventive Action (na	· ·
number):	Receipt Date: NA

CAR No.: 2005-01-01 CAR Dat	e: 8/2/05
Reported by (name): Chuch Mason	
Requirement (SOP, ISO 14001, or other):  AA.2, EMP-05, awareness of the policy	and the EMS
<b>Description of Nonconformance:</b> (If this is a major nonconformance then also insert the root and cause from the attached list. Provide additional description or resuch as a completed Notable Event Report.)	
Several people interviewed were not aware	of the environmental
policy of the Ems in general. Those who i	
it mostly through informal channels. Item 2	
Grading (circle one): Major Minor Obs	ervation
Corrective Action Required:	
Perform J-lab wicle awareness training, inc	luding training on the
undiannental policy.	7 7
	·
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	!
Responsibility for Corrective Action (name and phonumber):	ne <b>Due Date:</b>
number).	Receipt Date:

#### EMP-12A

Preventive Action Required:	
Same as corrective action, but ensure that annual occurs.	refresher training
Responsibility for Preventive Action (name and phone	Due Date:
number):	Receipt Date:
Describe Implementation and Effectiveness:	
EMS Management Representative Approval Signature:	Date:

CAR No.: (AR 2005-07-02	CAR Date: 8/2/05	
Reported by (name): Chuck Mason		
Requirement (SOP, ISO 14001, or other):		
4.4.7, EMP-09 Emery response		
Description of Nonconformance: (If this is a major nonconformance then also insert the cause from the attached list. Provide additional description as a completed Notable Event Report.)	ription or reference supporting information sources	
h .	Employee in acid transfer area and CHL were not aware on how	
to respond to emergency situations. There was a lack of consistency		
In the responses given.		
Personnel in Room 109 of Physics/EELako did not know how to		
respond to an emergency.	respond to an energency.	
	bcontractor tests emergency response ests into the emergency response productures munt the challs.	
Grading (circle one): Major Minor Observation		
Corrective Action Required:		
Responsibility for Corrective Action (na number):	me and phone Due Date:	

CAR No.: 2005-01-03	CAR Date: 8/2/05
Reported by (name): Chuch Mason	, , , , , , , , , , , , , , , , , , ,
Requirement (SOP, ISO 14001, or other):	
4.4.5, EMP-07 Control of	DO 65
<b>Description of Nonconformance:</b> (If this is a major nonconformance then also insert the cause from the attached list. Provide additional descent as a completed Notable Event Report.)	•
Employee in acid transfer bldg a	nd employee in CHL did not
have a controlled version of Sof	s. Employee in acid transfer
wrote his own sof and had not trained others on the sof.	
In CAL, SOP revision procedure was not being followed.	
•	J
Grading (circle one): Major Minor	Observation
Corrective Action Required:	
Doggo and in this for Correction Action (	
Responsibility for Corrective Action (na number):	me and phone <b>Due Date:</b>
	Receipt Date:

CAR No.: 2005-01-04	CAR Date: 8/2/05
Reported by (name): Chuch Muson	
Requirement (SOP, ISO 14001, or other):	
4.5.4, A-01-006 SOP (Rec	orels control)
Description of Nonconformance:  (If this is a major nonconformance then also insert the cause from the attached list. Provide additional description as a completed Notable Event Report.)  Employee in acid transfer building records. Pthacalibration records in mater.  In the SOP.	ne root and contributing cause category and specific ription or reference supporting information sources
Grading (circle one): Major Minor	Observation
Corrective Action Required:	
Responsibility for Corrective Action (na number):	me and phone  Due Date:  Receipt Date:

CAR No.: 2005-01-05	CAR Date: 8/2/05
Reported by (name): Chuch Mason	
Requirement (SOP, ISO 14001, or other):	
4.4.2, EMP-05 Training, A	-04-009-50P
Description of Nonconformance:  (If this is a major nonconformance then also insert the cause from the attached list. Provide additional description as a completed Notable Event Report.)  Employee in acid transfer building but he did not recall receiving this that he had received the training.  Improvement area: use the "asp training in SoPs, The software council track SoP training over the update each person's ITP.	e root and contributing cause category and specific ption or reference supporting information sources fake is required to triple ringe training, training, and there was no record en' training software to track intains a fecture to easily provide
Grading (circle one): Major Minor	Observation
Corrective Action Required:	
Responsibility for Corrective Action (namnumber):	ne and phone Due Date:
number /•	Receipt Date:

CAR No.: 200 C 01 01	CAR Date: class =
CAR No.: 2005-01-06	CAR Date: 8/2/05
Reported by (name): Chuch Mason	
Requirement (SOP, ISO 14001, or other):	
4.4.6 Housekeeping	
Description of Nonconformance: (If this is a major nonconformance then also insert the cause from the attached list. Provide additional description as a completed Notable Event Report.)  Two unlong led conformance:	cription or reference supporting information sources
Two unlabeled containers appar Stored in CHL. One was an op	en Container that could be accel
stored in CHL. One was an open container that could be easily spilled, and was also stored outside of secondary containment area.	
Supervisor was much aware of situat	to.
Grading (circle one): Major Minor	r Observation
Corrective Action Required:	
Responsibility for Corrective Action (na	ame and phone <b>Due Date:</b>
number):	Receipt Date:

CAR No.: 2005-07-07	<b>CAR Date:</b> 8/3/05	
Reported by (name): Chuck Muson		
Requirement (SOP, ISO 14001, or other):		
750 14001 4.4.5 (Control o	f bocuments)	
Description of Nonconformance:  (If this is a major nonconformance then also insert the root and contributing cause category and specific cause from the attached list. Provide additional description or reference supporting information sources such as a completed Notable Event Report.)  The occupational nurse maintained her own to electronic copy of SOP-DS-HR-O3 (Mechical waste) on her hard drive. There is a separate electronic copy on Docushare. There should be one copy of this SOP available.  Potential area for improvement: The nurse maintains the original medical waste manifest and sends a copy to Linda Even. Is it necessary to have a people maintaining these records as opposed to one person?		
Grading (circle one): Major Minor Observation		
Corrective Action Required:		
Responsibility for Corrective Action (na number):	me and phone <b>Due Date:</b>	

CAR No.: 2005-01-08	CAR Date: 8 3 0 5		
Reported by (name): Chuck Mason			
Requirement (SOP, ISO 14001, or other):			
Description of Nonconformance:  (If this is a major nonconformance then also insert the root and contributing cause category and specific cause from the attached list. Provide additional description or reference supporting information sources such as a completed Notable Event Report.) Production clean from  1) Do not custently Calibrate the overfill or (anh claims for the chemical cabinet. However, they have a written "traveler" that is currently under development to address this. Steve Singleton will be responsible for completing the traveler. There is procedure or sop for performing this operation as required.  2) Improvement idea: (an the "traveler" system be used for performing monitoring and measurement required as part of an sop.  3) Sops had not been distributed for managing significant aspects associated with VARC personnel, such as applied tower meant or glycol spills.			
Grading (circle one): Major Minor	Observation		
Corrective Action Required:			
<b>Responsibility for Corrective Action</b> (na number):	me and phone  Due Date:  Receipt Date:		

CAR No.: 2005-01-09	CAR Date: 8   3   05	
Reported by (name): Chuck Muson		
Requirement (SOP, ISO 14001, or other):		
4.4.6 Operational Control		
<b>Description of Nonconformance:</b> (If this is a major nonconformance then also insert the root and contributing cause category and specific cause from the attached list. Provide additional description or reference supporting information sources such as a completed Notable Event Report.)		
Personnel in the electronics group, not aware of any SOPs that the	room 109 (Jeff Wilson), were	
not aware of any sofe that the	1 had to follow related to	
music read solder management.	This was identified as a	
significant aspect.	·	
Grading (circle one): Major Minor	Observation	
Corrective Action Required:		
Responsibility for Corrective Action (na		
number):	me and phone <b>Due Date:</b>	

CAR No.: 2005-01-10	CAR Date: 8/3/05	
Reported by (name): Chuck Mason		
Requirement (SOP, ISO 14001, or other):		
4.3.1 Env. aspects		
<b>Description of Nonconformance:</b> (If this is a major nonconformance then also insert the cause from the attached list. Provide additional description as a completed Notable Event Report.)		
Oil spills were identified as a s	ignificant aspect in blue crab.	
However, there is a potential for	only very small sollic in blue	
com because of is dealed the	ا ۱۱ ما با الما الما من ما السا	
stored there, Recommend re-scoring	, as a non-significant aspect.	
Grading (circle one): Major Minor Observation		
Corrective Action Required:		
	,	
Pasnancibility for Corrective Action (	and whoma Duc Date:	
Responsibility for Corrective Action (name and phone number):		
	Receipt Date:	

EMP-12 A		
CAR No.: 2005-1-TR-1	CAR Date: 8	14105
Reported by (name): Tim Rothyel	3)	
Requirement (SOP, ISO 14001, or other): A - 05 - 014 - 50₽	14001 4.4	. E
<b>Description of Nonconformance:</b> (If this is a major nonconformance then also insert t cause from the attached list. Provide additional descent as a completed Notable Event Report.)		
The SOP Requires the in	rpact bead	s to be replaced
Semi annually bub this	is not being	done. It is
also not clear who is	responsib	he for this
Maintenance,		
Grading (circle one): Major Minor Corrective Action Required:	Observation	on ,
Determine if this Mai	Admiration 1 A	em is required
and if it is make it		
do it.	CLEAR IN C.	ce sep and similar
	- <u> </u> - <u> </u> -	T
Responsibility for Corrective Action (na number):	ame and phone	Due Date:

**Receipt Date:** 

CAR No.: 2005-1-TR-2 CAR Date: 8/4/05 Reported by (name): Tim Rethyels Requirement (SOP, ISO 14001, or other): 14001 4.4.6 SOP > A -05-014-50P **Description of Nonconformance:** (If this is a major nonconformance then also insert the root and contributing cause category and specific cause from the attached list. Provide additional description or reference supporting information sources such as a completed Notable Event Report.) Section 5.0 of SoP is not complete. (Observation) Grading (circle one): Major Minor **Corrective Action Required:** Insert the completed text in section 5.0 in Rev 1. Responsibility for Corrective Action (name and phone **Due Date:** number):

**Receipt Date:** 

CAR No.: 2005-1-TR-3	CAR Date: 8/5/05	· · · · · · · · · · · · · · · · · · ·
Reported by (name): Tim Rothgeb		
Requirement (SOP, ISO 14001, or other): 14	1001 4.4.6	- ·
ACC-015		
Description of Nonconformance:  (If this is a major nonconformance then also insert the cause from the attached list. Provide additional description as a completed Notable Event Report.)  SOP requires oil booms and oil absorbent mater but these materials are not available at the "mu	ption or reference supporting information in the control of the co	ion sources
Grading (circle one): Major Minor	Observation	
Corrective Action Required: Sealed 5 gallon buckets of the material that these materials will be available by	<u> </u>	
Responsibility for Corrective Action (na	me and phone <b>Due Date:</b>	

CAR No.: 2005-1-TR-4	CAR Date: 8/5/05
Reported by (name): Tim Rothgeb	
Requirement (SOP, ISO 14001, or other): 14	4001 4.4.6
ACC-015	
Description of Nonconformance: (If this is a major nonconformance then also insert the cause from the attached list. Provide additional descr such as a completed Notable Event Report.) User unaware of the existence of the checklist in the check	iption or reference supporting information sources
Grading (circle one): Major Minor	Observation
Corrective Action Required: Retrain the user on the SOP.	
Responsibility for Corrective Action (na number):	me and phone <b>Due Date:</b>
	Receipt Date:

CAR No.: 2005-01-JM-01	CAR Date: 8/9/05		
Reported by (name): Jim Murphy			
Requirement (SOP, ISO 14001, or other): A-04-011-SOP			
<b>Description of Nonconformance:</b> (If this is a major nonconformance then also insert the root and contributing cause category and specific cause from the attached list. Provide additional description or reference supporting information sources such as a completed Notable Event Report.)			
In the chemical storage building drums been incorrectly labeled with "Waste" s	_	lai reuse nave	
Grading (circle one): Major Minor	Observation		
Corrective Action Required:			
Relabel SBR drums correctly			
Responsibility for Corrective Action (nar number):	me and phone Due Date	<b>):</b>	
	Receipt [	Date:	

CAR No.: 2005-01-JM-02	CAR Date: 08/09/05
Reported by (name): Jim Murphy	
Requirement (SOP, ISO 14001, or other): 4.5.4 HPP-ADM-011	
<b>Description of Nonconformance:</b> (If this is a major nonconformance then also insert the cause from the attached list. Provide additional descrip such as a completed Notable Event Report.)	
RadCon Manager approval of incomplete documented.	e daily inspections is not being
Grading (circle one): Major Minor	<b>Observation</b> )
Grading (circle one): Major Minor Corrective Action Required:	Observation
Corrective Action Required:  Document reason for incomplete inspec	
Corrective Action Required:  Document reason for incomplete inspec	
Corrective Action Required:  Document reason for incomplete inspec	
Corrective Action Required:  Document reason for incomplete inspec	
Corrective Action Required:  Document reason for incomplete inspec	tion on daily log and indicate Rad

CAR No.: 2005-01-JM-03	CAR Date: 08/09/05
Reported by (name): Jim Murphy	
Requirement (SOP, ISO 14001, or other): 4.5.6 HPP-ADM-012	
<b>Description of Nonconformance:</b> (If this is a major nonconformance then also insert the cause from the attached list. Provide additional descrip such as a completed Notable Event Report.)	
Bags of rad waste temporarily stored in on the floor.	Bldg 52 are unlabeled and "dumped"
Cunding (single one). Mains Miner	
Grading (circle one): Major Minor Corrective Action Required:	Observation
Clean up area	
Responsibility for Corrective Action (nam	e and phone Due Date:
number):	Receipt Date:

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